

Title (en)  
SHEET HEATING ELEMENT

Title (de)  
BLATTHEIZELEMENT

Title (fr)  
ÉLÉMENT CHAUFFANT EN FEUILLE

Publication  
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Application  
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Abstract (en)  
[origin: WO2008091001A2] The sheet heating element according to the present invention comprises a substrate sheet made of an electrically insulative material and lines made of electrically conductive materials and arranged with a distance between them on the substrate sheet. The sheet heating element further comprises at least one PTC resistor sheet being in electrical contact with the lines and configured to heat up in a self-regulated manner in response to a supply of electricity from the lines. The at least one PTC resistor sheet may comprise a flame retardant agent and/or a liquid-resistant resin. The sheet heating element according to the present invention has excellent flexibility, durability, and reliability, as well as low manufacturing cost. When the sheet heating element of the present invention is used in a car seat heater or in a steering wheel heater, the passenger feels comfortable when seated thereon, and the driver feels comfortable when touching the steering wheel.

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